Name of the Work : Improvements to Road,Drain and Footpath in Kannuramma Main Road and abutting Cross Roads in Ward No.8, Kodigehalli

TEJUS
CONSULTANTS

TEST REPORT					
Clients	**Bruhat Bangalore Mahanagara Palike**				
Project	**Name Of work : - Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli**				
Consultants	**TEJUS CONSULTANTS Basaveshwar Nagar Bangalore**				
Contractor	**M/s Karthik Enterprises**				
Total Weight in g	**3000**				
SIEVE ANALYSIS					
Type of Material	40 mm down size			**Proposed Use**	PCC
Sample Location	At Site			**Date of Sampling**	02/02/2018
				Date of Testing	02/02/2018
IS Sieve Size	**Weight Retained in gm**	**Cum. Weight Retained in gm**	**Cumulative Weight Retained in %**	**Cumulative Weight Passing in %**	**Specific Limits as per IS 383-1970 (RA-2007)** **% of Passing For Graded Aggregate of Nominal Size**
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	99	99	3.30	96.70	95-100
20.00mm	1468	1567	52.23	47.77	30-70
10.00mm	638	2205	73.50	26.50	10-35
4.75mm	720	2925	97.50	2.50	0-5
Pan	75	3000	100.00	0.00	
Remarks :	Satisfactory / Not Satisfactory				

Consultant's Representative

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS
CONSULTANTS

Test Report on Cement

Project	Name Of work : - Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abouting Cross Roads in Ward No.8, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Karthik Enterprises
Sample ID	Cement
Date of Sample Tested	02/02/18
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	36 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	380 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

174, Sri Ranga Complex
Amrutha Nagar Main Road
New Bank Colony, Konanakunte
Bangalore - 560 062.
Mobile : +91 97429 59595
Tele/Fax : 080-2632 2565
E-mail : civilexpertsltd@gmail.com
URL : www.civilexperts.in

NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC/BBMP/QC/2017-18

Date: 30.01.2018

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Bruhat Bangalore Mahanagar Palike**

Name of Work : Improvements to Roads, drains, footpath and park in ward no.08,Bytarayanapura Division (Package includes 11 Works of Rs 1010 lakhs) - Improvements to Road,Drain and Footpath in 5th Main Road and abutting Cross Roads of Tatanagar in Ward No.8, Kodigehalli

Contractor : **M/s Karthik Enterprises**

Sample Identification : 10mm, 12mm, 16mm TMT Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 30.01.2018

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	10	0.621	550	578	18
2	Fe 500	12	0.887	569	599	19
3	Fe 500	16	1.580	582	610	20

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

For Civil Experts

Authorised Signature

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS
CONSULTANTS

Test Report on Cement

Project	Name Of work : - Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abouting Cross Roads in Ward No.8, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Karthik Enterprises
Sample ID	Cement
Date of Sample Tested	02/02/18
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	40 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	375 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P..
Bangalore.

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Name Of work : - Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abouting Cross Roads in Ward No.8, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Karthik Enterprises

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	**Sand/M sand**	**Proposed Use**	Concrete
Location/Source	**At Plant/site**	**Date of Sampling**	02/02/2018
Period of Soaking	**24 hours**	**Date of Testing**	02/02/2018

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	680	681	694	
B	Weight of oven - dry sample gm.	672	673	686	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1698	1698	1708	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.615	2.609	2.628	**2.617**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.190	1.189	1.166	**1.182**

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Name Of work : - Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abouting Cross Roads in Ward No.8, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Karthik Enterprises

SIEVE ANALYSIS

Total Weight:	**3000** gms		
Type of Material	**Fine aggregate (River Sand/M sand)**	**Proposed Use**	Concrete
Sample Location	At Plant/site	**Date of Sampling**	02/02/2018
		Date of Testing	02/02/2018

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	242	242	8.07	91.93	90 - 100
2.36 mm	280	522	17.40	82.60	75 - 100
1.18 mm	520	1042	34.73	65.27	55 - 90
0.600 mm	480	1522	50.73	49.27	35 -59
0.300 mm	620	2142	71.40	28.60	8-30
0.150 mm	580	2722	90.73	9.27	0 - 10
Pan	278	3000			-

Remarks : Satisfactory / Not Satisfactory

Consultant's Representative

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS
CONSULTANTS

TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	M/s Karthik Enterprises				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	20 mm down size		**Proposed Use**	Concrete	
Sample Location	At Plant		**Date of Sampling**	07/02/2018	
			Date of Testing	07/02/2018	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	**100**
20.00 mm	265	265	2.65	97.35	**95 - 100**
10.00 mm	4958	5223	52.23	47.77	**25 - 55**
4.75 mm	4325	9548	95.48	4.52	**0 - 10**
Pan	452	10000			
Remarks :	Satisfactory / Not Satisfactory				

Consultant's Representative

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P..
Bangalore.

TEJUS
CONSULTANTS

TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	M/s Karthik Enterprises				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	20 mm down size		**Proposed Use**	Concrete	
Sample Location	At Plant		**Date of Sampling**	07/02/2018	
			Date of Testing	07/02/2018	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	**100**
20.00 mm	272	272	2.72	97.28	**95 - 100**
10.00 mm	4658	4930	49.30	50.70	**25 - 55**
4.75 mm	4532	9462	94.62	5.38	**0 - 10**
Pan	538	10000			
Remarks :	Satisfactory / Not Satisfactory				

Consultant's Representative

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/s Karthik Enterprises	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**		**Proposed Use**		
Sample Location	Plant		**Date of Sampling**	07/02/2018	
			Date of Testing	07/02/2018	
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
20.0	0	0	0	100	100
12.5	575	575	5.75	94.25	90-100
10.0	3348	3923	39.23	60.77	40-85
4.75	5482	9405	94.05	5.95	0-10
Pan	595	10000			

Remarks :	Satisfactory / Not Satisfactory

Consultant's Representative

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P
Bangalore.

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

174, Sri Ranga Complex
Amrutha Nagar Main Road
New Bank Colony, Konanakunte
Bangalore - 560 062.
Mobile : +91 97429 59595
Tele/Fax : 080-2632 2565
E-mail : civilexpertsltd@gmail.com
URL : www.civilexperts.in

NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC/BBMP/QC/2017-18

Date: 07.02.2018

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Bruhat Bangalore Mahanagar Palike**

Name of Work : Improvements to Roads, drains, footpath and park in ward no.08,Bytarayanapura Division (Package includes 11 Works of Rs 1010 lakhs)- Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abouting Cross Roads in Ward No.8, Kodigehalli

Contractor : **M/s Karthik Enterprises**

Sample Identification : 8mm, 10mm, 12mm TMT Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 07.02.2018

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.395	523	549	20
2	Fe 500	10	0.618	556	563	18
3	Fe 500	12	0.889	578	578	19

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

For Civil Experts

Authorised Signature

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/s Karthik Enterprises	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**		**Proposed Use**		
Sample Location	Plant		**Date of Sampling**	07/02/2018	
			Date of Testing	07/02/2018	
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
20.0	0	0	0	100	100
12.5	585	585	5.85	94.15	90-100
10.0	3358	3943	39.43	60.57	40-85
4.75	5498	9441	94.41	5.59	0-10
Pan	559	10000			

Remarks :	Satisfactory / Not Satisfactory

Consultant's Representative

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bengalore.

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Name Of work : - Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Karthik Enterprises

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	**Sand/M sand**	**Proposed Use**	Concrete
Location/Source	**At Plant/site**	**Date of Sampling**	07/02/2018
Period of Soaking	**24 hours**	**Date of Testing**	07/02/2018

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	662	660	670	
B	Weight of oven - dry sample gm.	654	652	661	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1693	1691	1692	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.680	2.672	2.613	**2.655**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.223	1.227	1.362	**1.271**

HOC

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Name Of work : - Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Karthik Enterprises

SIEVE ANALYSIS

Total Weight:	**3000** gms				
Type of Materia	**Fine aggregate (River Sand/M sand)**		**Proposed Use**	Concrete	
Sample Location	At Plant/site		**Date of Sampling**	07/02/2018	
			Date of Testing	07/02/2018	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	0	0	0	100.00	**100**
4.75 mm	238	238	7.93	92.07	**90 - 100**
2.36 mm	272	510	17.00	83.00	**75 - 100**
1.18 mm	510	1020	34.00	66.00	**55 - 90**
0.600 mm	540	1560	52.00	48.00	**35 -59**
0.300 mm	658	2218	73.93	26.07	**8-30**
0.150 mm	510	2728	90.93	9.07	**0 - 10**
Pan	272	3000			**-**

Remarks : Satisfactory / Not Satisfactory

Consultant's Representative

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

TEST REPORT

TEJUS CONSULTANTS

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Name Of work : - Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Karthik Enterprises

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	**Sand/M sand**	**Proposed Use**	Concrete
Location/Source	**At Plant/site**	**Date of Sampling**	07/02/2018
Period of Soaking	**24 hours**	**Date of Testing**	07/02/2018

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	632	651	678	
B	Weight of oven - dry sample gm.	624	643	669	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1673	1688	1698	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.667	2.702	2.624	**2.664**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.282	1.244	1.345	**1.291**

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Name Of work : - Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Karthik Enterprises

SIEVE ANALYSIS

Total Weight:	**3000** gms				
Type of Materia	**Fine aggregate (River Sand/M sand)**		**Proposed Use**	Concrete	
Sample Location	At Plant/site		**Date of Sampling**	07/02/2018	
			Date of Testing	07/02/2018	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	0	0	0	100.00	**100**
4.75 mm	235	235	7.83	92.17	**90 - 100**
2.36 mm	280	515	17.17	82.83	**75 - 100**
1.18 mm	410	925	30.83	69.17	**55 - 90**
0.600 mm	568	1493	49.77	50.23	**35 -59**
0.300 mm	750	2243	74.77	25.23	**8-30**
0.150 mm	530	2773	92.43	7.57	**0 - 10**
Pan	227	3000			**-**
Remarks :			Satisfactory / Not Satisfactory		

Consultant's Representative

Assistant Executive Engineer,
Kodigehalli Sub Division.
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS
CONSULTANTS

Test Report on Cement

Project	Name Of work : - Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Karthik Enterprises
Sample ID	Cement
Date of Sample Tested	07/02/18
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	36 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	380 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS
CONSULTANTS

Test Report on Cement

Project	Name Of work : - Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Karthik Enterprises
Sample ID	Cement
Date of Sample Tested	07/02/18
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	40 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	375 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	

Assistant Executive Engineer
Kodigehalli Sub Division.
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS
CONSULTANTS

Test report on Compressive strength of concrete cubes

Project	Name Of work : - Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Karthik Enterprises
Location:	Cement
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	07/02/18	14/2/18	7 days	8.822	22500	298	13.24	13.24
2	07/02/18	14/2/18	7 days	8.865	22500	300	13.33	
3	07/02/18	14/2/18	7 days	8.722	22500	296	13.16	

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS
CONSULTANTS

Test report on Compressive strength of concrete cubes

Project	Name Of work : - Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Karthik Enterprises
Location:	Cement
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	07/02/18	28/2/18	28 days	8.582	22500	450	20.00	20.04
2	07/02/18	28/2/18	28 days	8.762	22500	452	20.09	
3	07/02/18	28/2/18	28 days	8.560	22500	451	20.04	

Assistant Executive Engineer
Kodigehalli Sub Division.
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS
CONSULTANTS

PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	M/s Karthik Enterprises
Name of Work	:	Name Of work : - Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli
No.of Sample Tested	:	3
Date of Testing	:	14/2/18
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20} - 100mm thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	90.00	0.458	2591.75	1.80	0.960	38.21	19.46	21.02	20.18	25.22
2	50.00	90.00	0.451	2552.14	1.80	0.960	38.56	19.64	21.21	20.36	25.45
3	50.00	90.00	0.436	2467.26	1.80	0.960	38.12	19.41	20.97	20.13	25.16

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

Assistant Executive Engineer
Kodigehalli Sub Division.
Yelahanka Zone, B.B.M.P.
Bangalore.

Consultant's Representative

TEJUS
CONSULTANTS

PRECAST SLAB (CORE) TEST REPORT		
Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	M/s Karthik Enterprises
Name of Work	:	Name Of work : - Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli
No.of Sample Tested	:	3
Date of Testing	:	14/2/18
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20} . 100mm thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	90.00	0.462	2614.39	1.80	0.960	38.10	19.40	20.96	20.12	25.15
2	50.00	90.00	0.459	2597.41	1.80	0.960	37.98	19.34	20.89	20.05	25.07
3	50.00	90.00	0.450	2546.48	1.80	0.960	38.10	19.40	20.96	20.12	25.15

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

Consultant's Representative

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	M/s Karthik Enterprises
Name of Work	:	Name Of work : - Improvements to Road,Drain and Footpath in Kannuramma Main Road and Abouting Cross Roads in Ward No.8, Kodigehalli
No.of Sample Tested	:	3
Date of Testing	:	14/2/18
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20} . 250mm Thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	100.00	180.00	3.500	2475.74	1.80	0.960	158.12	20.13	21.74	20.87	26.09
2	100.00	180.00	3.510	2482.82	1.80	0.960	159.10	20.26	21.88	21.00	26.25
3	100.00	180.00	3.490	2468.67	1.80	0.960	158.10	20.13	21.74	20.87	26.09

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 15 days from the date of testing.

TEJUS CONSULTANTS

Consultant's Representative

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.